CLAIMS:

1. An apparatus for displaying images including:
an enclosure,
a frame installed in the enclosure and adapted to hold an interlaced image, and
an optical barrier spaced from the frame and adapted to obscure portions of an installed interlaced image.

2. An apparatus for displaying images as claimed in claim 1 further including a image installed in the frame.

3. An apparatus for displaying images as claimed in claim 2 wherein the image is a composition of multiple interlaced images applied to a light transparent material.

4. An apparatus for displaying images as claimed in claim 2 or claim 3 wherein the image is produced on a single piece of material.

5. An apparatus for displaying images as claimed in claim 3 wherein the interlaced images in conjunction with the optical barrier display 3D images to a viewer.

6. An apparatus for displaying images as claimed in any one of claims 1 to 5 wherein the optical barrier includes a plurality of elongated grills.

7. An apparatus for displaying images as claimed in claim 6 wherein the grills may be extruded from a non-reflective material, such as anodised aluminium.

8. An apparatus for displaying images as claimed in claim 6 or claim 7 wherein the grills have a triangular or circular segment cross-section.

9. An apparatus for displaying images as claimed in claim 8 wherein the grills are aligned so that the smallest distance between the image and the grills is at a vertex of grills.

10. An apparatus for displaying images as claimed in claim 8 or claim 9 wherein the grills present a flat or curved face to a viewer.

11. An apparatus for displaying images as claimed in any one of claims 6 to 10 wherein the grills are arranged adjacently in a linear array with a gap between adjacent grills.

12. An apparatus for displaying images as claimed in claim 11 wherein the grills are oriented vertically.

13. An apparatus for displaying images as claimed in claim 11 or claim 12 wherein the grills are spaced such that there is a ratio of 80/20 of grill width to gap.

14. An apparatus for displaying images as claimed in any one of claims 11 to 13 wherein the spacing of the grill provides viewing between the angles of 15-165°.

15. An apparatus for displaying images as claimed in any one of claims 11 to 14 wherein the width of each grill is 20.32 mm.

16. An apparatus for displaying images as claimed in any one of claims 11 to 15 wherein the gap between each grill is 5.08 mm.

17. An apparatus for displaying images as claimed in any one of claims 1 to 16 wherein the enclosure is adapted to house a light source to provide back lighting for a image installed in the frame.

18. An apparatus for displaying images as claimed in claim 17 wherein the light source is a plurality of fluorescent lights.

19. An apparatus for displaying images as claimed in any one of claims 1 to 18 wherein the enclosure is constructed from non-reflective, opaque material.

20. An apparatus for displaying images as claimed in any one of claims 1 to 19 wherein the space between the image frame and optical barrier is adjustable.

21. An apparatus for displaying images as claimed in claim 20 wherein the space between the image frame and the optical barrier is manually adjustable.

22. An apparatus for displaying images as claimed in claim 20 wherein the space between the image frame and the optical barrier is automatically adjustable.

23. An apparatus for displaying images as claimed in any one of claims 10 to 22 wherein the adjustment is by way of a suitable mechanical or electromechanical adjustment system.

24. An apparatus for displaying images as claimed in any one of claims 20 to 23 wherein the adjustment is by way of telescopic or slidable spacers.

25. An apparatus for displaying images as claimed in any one of claims 1 to 24 wherein the relative horizontal and vertical position of the image frame and optical barrier is adjustable.

26. An apparatus for displaying images as claimed in claim 25 wherein the relative horizontal and vertical position of the image frame and optical barrier is manually adjustable.

27. An apparatus for displaying images as claimed in claim 25 wherein the relative horizontal and vertical position of the image frame and optical barrier is automatically adjustable.

28. An apparatus for displaying images as claimed in any one of claims 25 to 27 wherein adjustment is by way of a suitable mechanical or electromechanical adjustment system.

29. An apparatus for displaying images as claimed in any one of claims 1 to 28 wherein the enclosure can be tilted to provide optimum viewing.